

SPECIAL COURSE OF HYDRAULICS OF ROAD STRUCTURES

ANNOTATION TO THE CURRICULUM OF A HIGHER EDUCATION INSTITUTION

Specialty 1-70 03 01 Highways

	Form of higher education		
	Full-time (day)	Correspondence	Correspondence abbreviated
Course	3	4	2
Term	5	6	4
Lectures, hours	34	8	8
Practical (seminar) classes, hours	34	6	6
Credit, semester	5	6	4
Classroom hours for the academic discipline	68	14	14
Independent work, hours	52	106	106
Total hours of academic discipline / credits	120/3		

1 The purpose of the discipline

The purpose of the discipline is the engineering training of students of the specialty 1 – 70 03 01 "Highways" in the field of hydraulic calculations of road structures.

2. As a result of mastering the academic discipline, the student must know: theoretical foundations of hydraulic calculations of road structures; possible negative effects of water on engineering structures;
be able to: perform hydraulic calculation of culverts and drainage structures of highways; establish from a hydraulic point of view the cause of the defect of roads;
possess: basic technical characteristics of road structures; normative literature on the calculation of hydraulic characteristics of road structures.

3. Formed competencies: AK-1: The ability to apply basic scientific and technical knowledge to solve theoretical and practical problems; AK - 4: Be able to work independently; SLK-1,3,4: Have the qualities of citizenship; Have the ability to interpersonal communications; Be able to work in a team; PK - 1: Analyze and evaluate engineering and hydrological conditions for the construction of transport facilities; to take into account the influence of these conditions on the choice of structural and technological solutions, PC-4: To be able to compose the general scheme of the structure, structural elements and assemblies, taking into account the latest research and design solutions.

4. Requirements and forms of current and interim certification. To assess the level of knowledge of students, the following diagnostic tools are used: protection of practical work performed; final credit.